

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/051061

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H04B10/18

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B G02B G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 164 724 A (LUCENT TECHNOLOGIES INC) 19 December 2001 (2001-12-19) paragraph '0011! - paragraph '0028! figures 1,4	1-28
X	US 6 538 787 B1 (KOGELNIK HERWIG ET AL) 25 March 2003 (2003-03-25)  column 3, line 55 - column 6, line 27 column 7, line 8 - column 13, line 10 figures 1-15	1-4, 8-17, 21-28

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

<sup>o</sup> Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

<sup>\*T\*</sup> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

<sup>\*X\*</sup> document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

<sup>\*Y\*</sup> document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

<sup>\*&\*</sup> document member of the same patent family

Date of the actual completion of the international search

13 May 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VASSALLO C: "PMD pulse deformation" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 31, no. 18, 31 August 1995 (1995-08-31), pages 1597-1598, XP006003355 ISSN: 0013-5194	1,2,14, 15,27,28
A	the whole document	3-13, 16-27
A	US 2003/103723 A1 (SCHEERER CHRISTIAN ET AL) 5 June 2003 (2003-06-05) paragraph '0014! - paragraph '0047! figures 2,6,7	1-28
A	EP 0 909 045 A (LUCENT TECHNOLOGIES INC) 14 April 1999 (1999-04-14) paragraph '0013! - paragraph '0024! figures 1,4,6	1-28

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Information on patent family members

International Application No

PCT/EP2005/051061

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1164724	A	19-12-2001	US EP	2004208604 A1 1164724 A2		21-10-2004 19-12-2001
US 6538787	B1	25-03-2003		NONE		
US 2003103723	A1	05-06-2003	DE DE DE EP	10147161 A1 10147162 A1 10147063 A1 1296471 A2		30-04-2003 15-05-2003 24-04-2003 26-03-2003
EP 0909045	A	14-04-1999	US CA CN EP JP JP NO	5930414 A 2245303 A1 1211744 A 0909045 A2 3466486 B2 11196046 A 984185 A		27-07-1999 16-03-1999 24-03-1999 14-04-1999 10-11-2003 21-07-1999 17-03-1999

